

Alireza As Samani

List of Publications by Year in descending order

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1209
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Silicon Photonic Single-Segment IQ Modulator for Net 1 Tbps/λ Transmission Using All-Electronic Equalization. Journal of Lightwave Technology, 2023, 41, 1192-1199. | 4.6 | 7 |
| 2 | Net 220 Gbps/λ IM/DD Transmssion in O-Band and C-Band With Silicon Photonic Traveling-Wave MZM. Journal of Lightwave Technology, 2021, 39, 4270-4278. | 4.6 | 24 |
| 3 | Integrated polarisation handling devices. IET Optoelectronics, 2020, 14, 109-119. | 3.3 | 13 |
| 4 | 240 Gbit/s Silicon Photonic Mach-Zehnder Modulator Enabled by Two 2.3-Vpp Drivers. Journal of Lightwave Technology, 2020, , 1-1. | 4.6 | 20 |
| 5 | 23-dB average isolation using a silicon photonic Mach-Zehnder modulator. Optics Express, 2020, 28, 26056. | 3.4 | 0 |
| 6 | Adiabatic Coupler With Design-Intended Splitting Ratio. Journal of Lightwave Technology, 2019, 37, 6147-6155. | 4.6 | 31 |
| 7 | C-Band and O-Band Silicon Photonic Based Low-Power Variable Optical Attenuators. IEEE Photonics Journal, 2019, 11, 1-8. | 2.0 | 1 |
| 8 | Silicon Microring Modulator with a pin-Diode-Loaded Multimode Interferometer Coupler. , 2019, , . | | 0 |
| 9 | Silicon Photonic Mach-Zehnder Modulator Architectures for on Chip PAM-4 Signal Generation. Journal of Lightwave Technology, 2019, 37, 2989-2999. | 4.6 | 42 |
| 10 | Silicon-based optical links using novel direct detection, coherent detection and dual polarization methods for new generation transport architectures. Optics Communications, 2019, 450, 48-60. | 2.1 | 11 |
| 11 | 25 and 50 Gb/s/λ PAM-4 Transmission Over 43 and 21 km Using a Simplified Coherent Receiver on SOI. IEEE Photonics Technology Letters, 2019, 31, 799-802. | 2.5 | 9 |
| 12 | 200 GBIT/S net rate transmission over 2 KM with a silicon photonic segmented MZM. , 2019, , . | | 7 |
| 13 | Plasmonic Integrated Multimode Filter. , 2019, , . | | 1 |
| 14 | An RF Scanning Receiver on a Silicon Photonic Chip. , 2019, , . | | 4 |
| 15 | Dual Parallel Multielectrode Traveling Wave Mach-Zehnder Modulator for 200 Gb/s Intra-datacenter Optical Interconnects. IEEE Photonics Journal, 2019, 11, 1-9. | 2.0 | 5 |
| 16 | 400 Gb/s O-band silicon photonic transmitter for intra-datacenter optical interconnects. Optics Express, 2019, 27, 10258. | 3.4 | 30 |
| 17 | Optimization of thermo-optic phase-shifter design and mitigation of thermal crosstalk on the SOI platform. Optics Express, 2019, 27, 10456. | 3.4 | 131 |
| 18 | 180 Gb/s single carrier single polarization 16-QAM transmission using an O-band silicon photonic IQM. Optics Express, 2019, 27, 14447. | 3.4 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A 4-lane 400 Gb/s silicon photonic transceiver for intra-datacenter optical interconnects. , 2019, , . | | 4 |
| 20 | 0-40 GHz-Tunable RF Receivers On Chip exploiting a Noise-Cancelling Architecture and a Silicon Photonic Modulator. , 2019, , . | | 0 |
| 21 | Highly Sensitive, 112 Gb/s O-band Waveguide Coupled Silicon-Germanium Avalanche Photodetectors. , 2019, , . | | 7 |
| 22 | High extinction ratio and broadband O-band polarization splitter and rotator on silicon-on-insulator. , 2019, , . | | 3 |
| 23 | Enabling High-Capacity Long-Reach Direct Detection Transmission With QAM-PAM Stokes Vector Modulation. Journal of Lightwave Technology, 2018, 36, 460-467. | 4.6 | 23 |
| 24 | Analysis, Modeling, and Mitigation of Parasitic Resonances in Integrated Metallic Seal Rings. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1082-1091. | 2.5 | 1 |
| 25 | First demonstration of a 400 Gb/s 4 λ CWDM TOSA for datacenter optical interconnects. Optics Express, 2018, 26, 19742. | 3.4 | 23 |
| 26 | 100 Gb/s PAM4 transmission system for datacenter interconnects using a SiP ME-MZM based DAC-less transmitter and a VSB self-coherent receiver. Optics Express, 2018, 26, 23969. | 3.4 | 16 |
| 27 | Modulator material impact on chirp, DSP, and performance in coherent digital links: comparison of the lithium niobate, indium phosphide, and silicon platforms. Optics Express, 2018, 26, 22471. | 3.4 | 14 |
| 28 | Silicon photonic dual-drive MIM based 56 Gb/s DAC-less and DSP-free PAM-4 transmission. Optics Express, 2018, 26, 5395. | 3.4 | 6 |
| 29 | Optical and thermal analysis of the light-heat conversion process employing an antenna-based hybrid plasmonic waveguide for HAMR. Optics Express, 2018, 26, 1752. | 3.4 | 16 |
| 30 | CMOS-compatible multi-band plasmonic TE-pass polarizer. Optics Express, 2018, 26, 30292. | 3.4 | 32 |
| 31 | Demonstration of a 120 \AA hybrid based simplified coherent receiver on SOI for high speed PON applications. Optics Express, 2018, 26, 31222. | 3.4 | 16 |
| 32 | 112 Gb/s PAM4 Transmission over 2 km SMF Using a C-band GeSi Electro-Absorption Modulator. , 2018, , . | | 5 |
| 33 | 56 Gb/s DAC-less and DSP-free PAM-4 Using A Silicon Photonic Dual-drive Michelson Interferometric Modulator. , 2018, , . | | 1 |
| 34 | Silicon Photonic Ring-Assisted MZI for 50 Gb/s DAC-Less and DSP-Free PAM-4 Transmission. IEEE Photonics Technology Letters, 2017, 29, 1046-1049. | 2.5 | 21 |
| 35 | An 80 Gb/s Silicon Photonic Modulator Based on the Principle of Overlapped Resonances. IEEE Photonics Journal, 2017, 9, 1-11. | 2.0 | 9 |
| 36 | 168-Gb/s Single Carrier PAM4 Transmission for Intra-Data Center Optical Interconnects. IEEE Photonics Technology Letters, 2017, 29, 314-317. | 2.5 | 40 |

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|----|--|-----|-----------|
| 37 | Analysis of integrated metal seal ring resonance. , 2017, , . | | 0 |
| 38 | Analysis and Experimental Study of a Silicon Photonic Single MRM-Assisted MZI PAM-4 Modulator. IEEE Photonics Journal, 2017, 9, 1-7. | 2.0 | 3 |
| 39 | High-speed low-chirp PAM-4 transmission based on push-pull silicon photonic microring modulators. Optics Express, 2017, 25, 13222. | 3.4 | 37 |
| 40 | Experimental parametric study of 128 Gb/s PAM-4 transmission system using a multi-electrode silicon photonic Mach Zehnder modulator. Optics Express, 2017, 25, 13252. | 3.4 | 78 |
| 41 | 200 Gb/s transmission using a dual-polarization O-Band silicon photonic intensity modulator for Stokes vector direct detection applications. Optics Express, 2017, 25, 30336. | 3.4 | 16 |
| 42 | Silicon Photonics Modulator Architectures for Multi-Level Signal Generation and Transmission. , 2017, , . | | 7 |
| 43 | Dual Polarization O-Band Silicon Photonic Intensity Modulator for Stokes Vector Direct Detection Systems. , 2017, , . | | 2 |
| 44 | A C-band Push-pull Dual-ring Silicon Photonic Modulator for 20 km SSMF transmission without CD compensation. , 2017, , . | | 0 |
| 45 | Digital Signal Processing for Dual-Polarization Intensity and Interpolarization Phase Modulation Formats Using Stokes Detection. Journal of Lightwave Technology, 2016, 34, 188-195. | 4.6 | 37 |
| 46 | A Silicon Photonic PAM-4 Modulator Based on Dual-Parallel Mach-Zehnder Interferometers. IEEE Photonics Journal, 2016, 8, 1-10. | 2.0 | 51 |
| 47 | A High Extinction Ratio, Broadband, and Compact Polarization Beam Splitter Enabled by Cascaded MMIs on Silicon-on-Insulator. , 2016, , . | | 9 |
| 48 | 56-Gbps OOK Transmission Using Silicon Microring Assisted Mach-Zehnder Interferometer. , 2016, , . | | 2 |
| 49 | A 41 GHz Slow-Wave Series Push-Pull Silicon Photonic Modulator. , 2015, , . | | 2 |
| 50 | Silicon Photonic Segmented Modulator-Based Electro-Optic DAC for 100 Gb/s PAM-4 Generation. IEEE Photonics Technology Letters, 2015, 27, 2433-2436. | 2.5 | 70 |
| 51 | A Low-Voltage 35-GHz Silicon Photonic Modulator-Enabled 112-Gb/s Transmission System. IEEE Photonics Journal, 2015, 7, 1-13. | 2.0 | 80 |
| 52 | Design, analysis, and transmission system performance of a 41 GHz silicon photonic modulator. Optics Express, 2015, 23, 14263. | 3.4 | 161 |
| 53 | Focusing-curved subwavelength grating couplers for ultra-broadband silicon photonics optical interfaces. Optics Express, 2014, 22, 18224. | 3.4 | 85 |
| 54 | High-speed compact silicon photonic Michelson interferometric modulator. Optics Express, 2014, 22, 26788. | 3.4 | 45 |

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|----|---|----|-----------|
| 55 | OOK and PAM optical modulation using a single drive push pull silicon Mach-Zehnder modulator. , 2014, , . | | 6 |
| 56 | A 4&#x00D7;4 fully non-blocking switch on SOI based on interferometric thermo-optic phase shifters. , 2014, , . | | 8 |
| 57 | A Lumped Michelson Interferometric Modulator in Silicon. , 2014, , . | | 1 |